

Appl. No. 10/743,511
Amdt. Dated March 17, 2006
Reply to Final Office Action of January 5, 2006

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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. – 10. (Cancelled)

11. (Previously Presented) A resistivity tool having a length, comprising:
a current source along said length;
a second current source along said length;
a current return along said length;
a third current source along said length;
a fourth current source along said length;
a second current return along said length; and
a monitor electrode along said length;
wherein said monitor electrode is not between said first current source and said first current return, is not between said second current source and said first current return, is not between said third current source and said second current return, and is not between said fourth current source and said second current return.

12. (Previously Presented) The resistivity tool of claim 11, said monitor electrode being a first monitor electrode, further comprising:

a second monitor electrode at a same location with respect to said length as said first monitor electrode.

13. (Previously Presented) The resistivity tool of claim 11, wherein said resistivity tool is configured to measure resistivity around at least 60% of a generally circular borehole wall.

14. – 32. (Cancelled)

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33. (Previously Presented) A resistivity tool having comprising:
a first and second current source electrodes coupled to the tool;
a first current return electrode coupled to the tool, wherein current from the first and second current source electrodes returns at the first current return, each of the first and second current source electrodes forms a source-return pair with the first current return;
a third and fourth current source electrodes;
a second current return electrode coupled to the tool, wherein current from the third and fourth current source electrodes returns at the second current return, each of the third and fourth current source electrodes forms a source-return pair with the second current return;
a first monitor electrode coupled to the tool, wherein the monitor electrode couples to the tool outside a region between a source-return pair.
34. (Previously Presented) The resistivity tool of claim 33 further comprising a second monitor electrode coupled to the tool, wherein the second monitor electrode coupled to the tool outside a region between a source-return pair.
35. (Previously Presented) The resistivity tool of claim 34 wherein the second monitor electrode couples at the same elevation on the tool as the first monitor electrode, but at a different radial position.
36. (Previously Presented) The resistivity tool of claim 34, said resistivity tool measuring resistivities at multiple depths of investigation.

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37. (Previously Presented) The resistivity tool of claim 34, further comprising:
- an arm;
 - a pad attached to said arm; and
 - said current source, current return and monitor electrode being mounted on said pad.